DRILLING REPORT

WELL:	UL American Basin 14-21 1H		**CONTRACTOR:**	Cactus			**RIG:**	Cactus 139	
RPT DATE:	August 14, 2017		**SPUD DATE:**	8/7/17	**CASING**	**OD**	**WT**	**GRD**	**MD**	**TVD**
	API #:	42495338760000	**DFS:**	7	Conductor	20	94	J-55	80	80
			REPORT NO:	8	Surface	13-3/8	55	J-55	1,172	1,171
FIELD:	Phantom (Wolfcamp)		**DOL:**	11	Intermediate	10-3/4	46	J-55	4,623	4,616
ELEV:	**RKB:**		**LAST BOP TEST:**	8/6/17						
MD:	7,886	**TVD:** 7,878								
24 HR FTG:	2,036	**HRS DRLG:** 22.5	**CSGHD:**							

DRILLING FLUID — **SHOE TEST:**

TIME	MW	FV	WL	3RPM	6RPM	PH	CAKE	GELS (10s/10m/30m)			PV	YP	CL	K	Pf	Mf	Ca	OIL	LGS	HTHP
18:00	9.1	27.0	100.0	1	1	10.5	1	1	1	1	1	1	70,500		0.60	1.10			3.02	

REDUCED PUMP RATES

PUMP	SPM	PRESS	DEPTH
#1	30	220	7,880
#2	30	220	7,880

BIT DATA

NO.	SIZE	MAKE	TYPE	SER NO.	NOZZLES	RE-RUN	IN	OUT	FEET	HRS	WOB	RPM	ROP
3	9.88	HDBS	MM55DC	12854764	7X12		5,850	7,886	2,036	22.5	40	67	90

BIT NO.		INNER		OUTER		DULL		LOC		SEAL		GAUGE		OTHER		RP	

HYDRAULICS DATA

PUMP	MAKE	MODEL	LINER	STK	SPM	PSI	GPM	GPS	EFF %	ECD	AV DP	AV DC	BIT HHP	PUMP HHP
1	HHF	1600	6.000	12.000	90	3325	375	4.1874	95	9.19				1600
2	HHF	1600	6.000	12.000	90	3325	375	4.1874	95	9.19				1600

BHA

DESCRIPTION:	2nd Intermediate 9.875" Hole Section, Run #1, BHA #3						
LENGTH	2,103.82	BHA WT. AIR	145,000	BHA WT. MUD	118,000	HRS. ON JARS	
ROT. WT.	250,000	P.U. WT.	300,000	S.O. WT.	215,000	TORQUE	17,000
TIME MADE UP	11:00	DATE MADE UP	8/12/2017	TIME PULLED		DATE PULLED	

SURVEY DATA

MD	ANGLE	AZIMUTH	TVD	N/S	COORDINATES	E/W	V. SECTION	DLS
7,447	0.72	39.92	7,439	-110.2	146.3		-144.8	1.2
7,541	0.74	45.95	7,533	-109.4	147.1		-144.1	0.1
7,635	0.68	51.57	7,627	-108.6	147.9		-143.6	0.1
7,730	0.85	46.19	7,722	-107.7	148.9		-143.1	0.2

CONSUMABLES	DIESEL FUEL (gal) Rvcd/Used/On Hand:		DRILL H2O (gal) Rcvd/Used/On Hand:	

OPERATIONS TIME LOG

FROM	TO	HRS	CODE		Start MD	End MD
06:00	13:00	7.0	Drilling	Drill, rotate & slide from 5,850' to 6,845'	5850	6845
13:00	13:30	0.5	Lubricate Rig	Perform general maintenance to rig. Take slow pump rates	6845	6845
13:30	04:30	15.0	Drilling	Drill 9.875" 2nd Intermediate Section F/ 6,845' - 7,858' (1,013' @ 67.53 FPH) Rotate Ftg = 957' * Slide Ftg = 56' * Slide Hrs = 1.73 Rotate = WOB 35-42 * GPM 750 * SPP 3350 * Diff 200 psi * SPM 180 * TD RPM 40-85 Mtr RPM 67 * Total RPM 117-152 * Torq 14-17K Sliding = WOB 60 * GPM 750 * SPP 3300 * Diff 50-125 psi * SPM 180	6845	7858
04:30	05:00	0.5	Other	Mud pumps sucked air due shakers being blinded off. Work to move mud back to active system.	7858	7858
05:00	05:30	0.5	Drilling	Drill 9.875" 2nd Intermediate Section F/ 7,858' - 7,886' (28' @ 56 FPH) Rotate = WOB 35-42 * GPM 750 * SPP 3350 * Diff 200 psi * SPM 180 * TD RPM 50 Mtr RPM 67 * Total RPM 117 * Torq 14-17K	7858	7886
05:30	06:00	0.5	Lubricate Rig	General rig maintenance, gather SPR's	7886	7886
TOTAL HRS	**24.0**					

WEATHER

GEN. CONDITIONS:	Mostly Cloudy	**WIND SPEED:**	7 MPH	**WIND DIRECTION:**	SE	**TEMP:**	73
COMMENTS:	Forecast: Intervals of clouds and sunshine. A stray shower or thunderstorm is possible. High 94F. Winds SSW at 10 to 15 mph.						